FIG.1

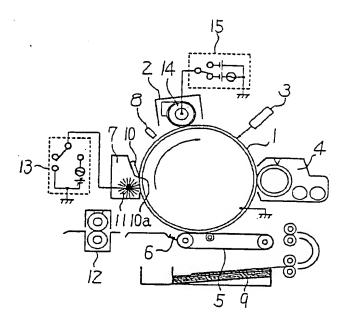


FIG.2

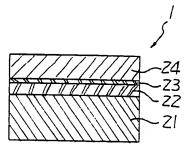


FIG.3

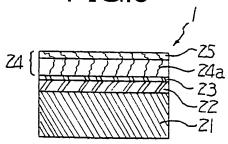


FIG.4

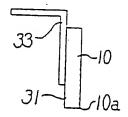


FIG.5

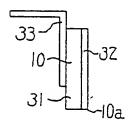
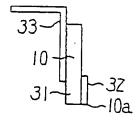


FIG.6





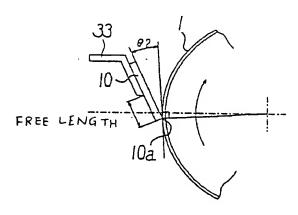


FIG.8

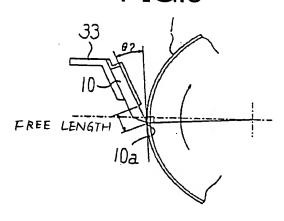
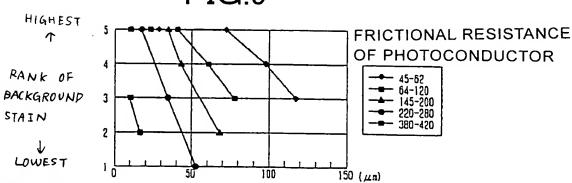


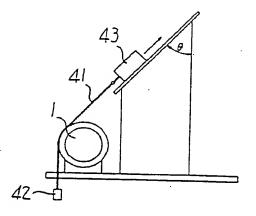
FIG.9

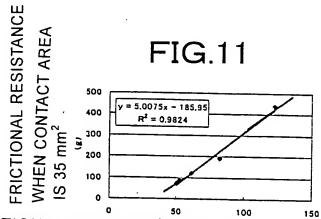


SURFACE ROUGHNESS OF BLADE EDGE (DEPTH OF CHIPPED PART)

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FIG.10





FRICTIONAL RESISTANCE WHEN CONTACT AREA IS 15 mm²(9f)

FIG.12 0.5 0.5 COEFFICIENT FRICTIONAL 0.4 0.3 Q. Z CONTACT APEA : 35 0. 1 350 Q 50 250 300 FRICTIONAL RESISTANCE (gf)

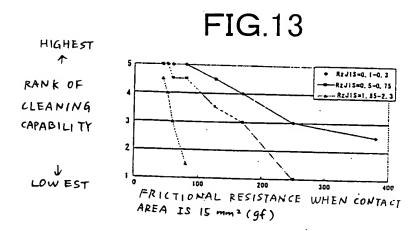
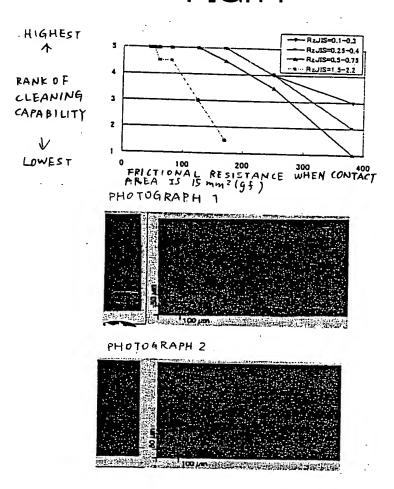
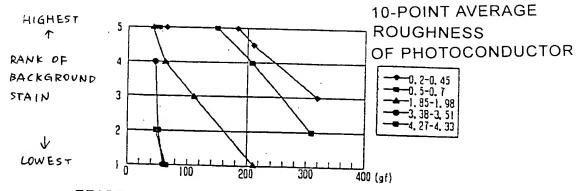


FIG.14



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FIG.15



FRICTIONAL RESISTANCE OF PHOTOCONDUCTOR

FIG.16

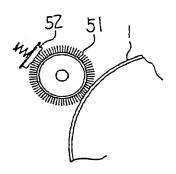


FIG.17

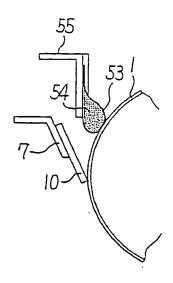
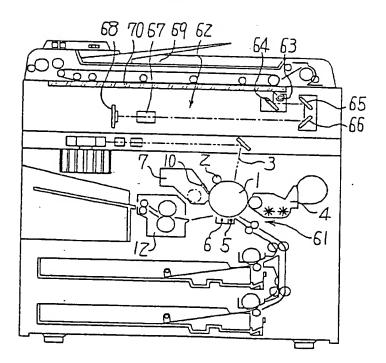


FIG.18



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FIG.19

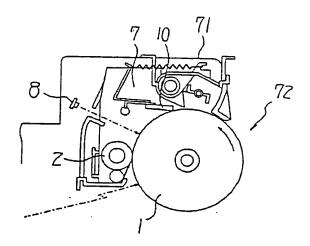


FIG.20

